

SANYO

No.1700E

Monolithic Linear IC

L780S00 Series

5 to 24V 1A 5-Pin Voltage Regulators
 with Strobe Pin

Features

- Output voltage

L780S05: 5V	L780S06: 6V	L780S07: 7V
L780S08: 8V	L780S09: 9V	L780S10: 10V
L780S12: 12V	L780S15: 15V	L780S18: 18V
L780S20: 20V	L780S24: 24V	
- The strobe pin can be used to turn ON/OFF output voltage (active-low).
- 1A output current.
- On-chip thermal protector.
- On-chip overcurrent limiter.
- On-chip ASO protector.
- The use of package TO220-5H (5 pins) facilitates mounting and thermal design.

[Common to L780S00 series]

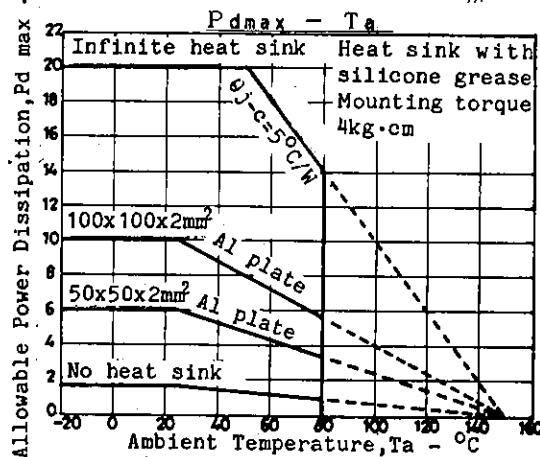
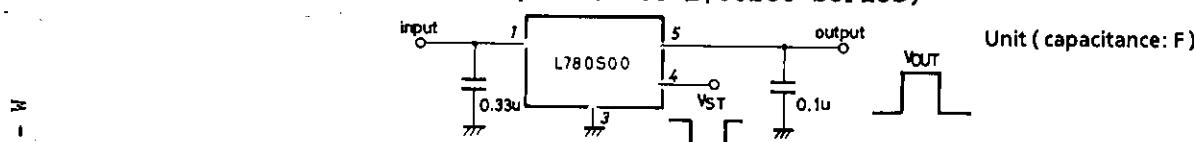
Maximum Ratings at $T_a=25^\circ\text{C}$

		unit
Maximum Supply Voltage	$V_{CC\max}$	Pin 1
Strobe Input Voltage	$V_{ST\max}$	Pin 4
Strobe Input Current	$I_{ST\max}$	Pin 4
Allowable Power Dissipation	$P_{d\max}$	1.75
		$T_a=25^\circ\text{C}$
Thermal Resistance	θ_{j-c}	20
Operating Temperature	T_{opr}	-20 to +80
Storage Temperature	T_{stg}	-55 to +150
		$^\circ\text{C}/\text{W}$

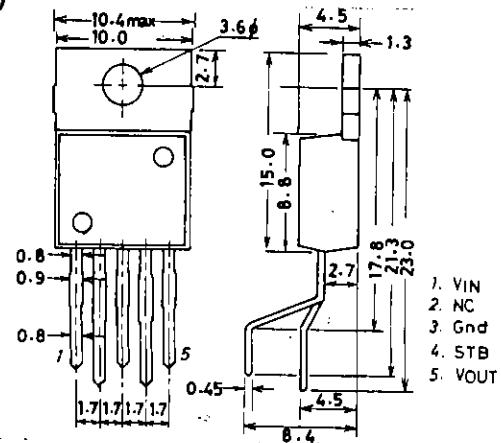
Strobe Operating Characteristics at $T_a=25^\circ\text{C}$

	unit
Strobe Operation Start Voltage $V_{st(on)}$	2.4
Strobe Operation Stop Voltage $V_{st(off)}$	0.5

DC Characteristics Test Circuit (Common to L780S00 series)



Package Dimensions
 (unit: mm)
 3079



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L780S00 Series

L780S05

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V_{IN}	7.5 to 20.0	V	unit
Output Current Range	I_o	5 to 1000	mA	

Operating Characteristics at Tj=25°C, $V_{IN}=10V$, $I_o=500mA$, $Vst=0V$, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V_{O1}		4.8	5.0	5.2	V
Line Regulation 1	ΔV_{OLN1}	$7V \leq V_{IN} \leq 25V$		3	100	mV
Line Regulation 2	ΔV_{OLN2}	$8V \leq V_{IN} \leq 12V$		1	50	mV
Load Regulation 1	ΔV_{OLD1}	$5mA \leq I_o \leq 1.5A$			100	mV
Load Regulation 2	ΔV_{OLD2}	$250mA \leq I_o \leq 750mA$			50	mV
Output Voltage 2	V_{O2}	$7V \leq V_{IN} \leq 20V$, $5mA \leq V_{IN} \leq 1A$	4.75		5.25	V
Current Dissipation	I_{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{CCLN}	$7V \leq V_{IN} \leq 25V$		1.3		mA
Current Dissipation Variation (Load)	ΔI_{CCLD}	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz^*$		40		uV
Ripple Rejection	R_r	$f=120Hz$, $8V \leq V_{IN} \leq 18V$	62	78		dB
Dropout Voltage	V_{DROP}	$I_o=1A$		2.0		V
Output Short Current	I_{OS}	$V_{IN}=35V$		0.75		A
Peak Output Current	I_{OP}			2.2		A
Output Voltage at Strobe Mode	$V_{O(STON)}$	$V_{IN}=35V$, $Vst=5V$, $I_o=0$, *			0.8	V
Current Dissipation at Strobe Mode	$I_{CC(STON)}$	"			3.0	mA
Strobe Input Current	I_{ST}	"			1.0	mA

L780S06

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V_{IN}	8.5 to 21.0	V	unit
Output Current Range	I_o	5 to 1000	mA	

Operating Characteristics at Tj=25°C, $V_{IN}=11V$, $I_o=500mA$, $Vst=0V$, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V_{O1}		5.75	6.0	6.25	V
Line Regulation 1	ΔV_{OLN1}	$8V \leq V_{IN} \leq 25V$		5	120	mV
Line Regulation 2	ΔV_{OLN2}	$9V \leq V_{IN} \leq 13V$		1.5	60	mV
Load Regulation 1	ΔV_{OLD1}	$5mA \leq I_o \leq 1.5A$			120	mV
Load Regulation 2	ΔV_{OLD2}	$250mA \leq I_o \leq 750mA$			60	mV
Output Voltage 2	V_{O2}	$8V \leq V_{IN} \leq 21V$, $5mA \leq V_{IN} \leq 1A$	5.7		6.3	V
Current Dissipation	I_{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI_{CCLN}	$8V \leq V_{IN} \leq 25V$		1.3		mA
Current Dissipation Variation (Load)	ΔI_{CCLD}	$5mA \leq I_o \leq 1A$			0.5	mA
Output Noise Voltage	V_{NO}	$10Hz \leq f \leq 100kHz^*$		45		uV
Ripple Rejection	R_r	$f=120Hz$, $9V \leq V_{IN} \leq 19V$	59	75		dB
Dropout Voltage	V_{DROP}	$I_o=1A$		2.0		V
Output Short Current	I_{OS}	$V_{IN}=35V$		0.75		A
Peak Output Current	I_{OP}			2.2		A
Output Voltage at Strobe Mode	$V_{O(STON)}$	$V_{IN}=35V$, $Vst=5V$, $I_o=0$, *			0.8	V
Current Dissipation at Strobe Mode	$I_{CC(STON)}$	"			3.0	mA
Strobe Input Current	I_{ST}	"			1.0	mA

L780500 Series

L780S07

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V _{IN}	9.5 to 22.0	V	unit
Output Current Range	I _O	5 to 1000	mA	

Operating Characteristics at Tj=25°C, V_{IN}=12V, I_O=500mA, V_{ST}=0V, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V _{O1}		6.72	7.0	7.28	V
Line Regulation 1	ΔV _{OLN1}	9V ≤ V _{IN} ≤ 26V		6	140	mV
Line Regulation 2	ΔV _{OLN2}	10V ≤ V _{IN} ≤ 14V		2	70	mV
Load Regulation 1	ΔV _{OLD1}	5mA ≤ I _O ≤ 1.5A			140	mV
Load Regulation 2	ΔV _{OLD2}	250mA ≤ I _O ≤ 750mA			70	mV
Output Voltage 2	V _{O2}	9V ≤ V _{IN} ≤ 22V, 5mA ≤ V _{IN} ≤ 1A	6.65		7.35	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{CCLN}	9V ≤ V _{IN} ≤ 25V			1.3	mA
Current Dissipation Variation (Load)	ΔI _{CCLD}	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*			46	uV
Ripple Rejection	R _r	f = 120Hz, 10V ≤ V _{IN} ≤ 21V	58	73		dB
Dropout Voltage	V _{DROP}	I _O = 1A			2.0	V
Output Short Current	I _{OS}	V _{IN} = 35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(STON)}	V _{IN} = 35V, V _{ST} = 5V, I _O = 0, *			0.8	V
Current Dissipation at Strobe Mode	I _{CC(STON)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

L780S08

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V _{IN}	10.5 to 23.0	V	unit
Output Current Range	I _O	5 to 1000	mA	

Operating Characteristics at Tj=25°C, V_{IN}=15V, I_O=500mA, V_{ST}=0V, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V _{O1}		7.7	8.0	8.3	V
Line Regulation 1	ΔV _{OLN1}	10.5V ≤ V _{IN} ≤ 25V		6.0	160	mV
Line Regulation 2	ΔV _{OLN2}	11V ≤ V _{IN} ≤ 17V		2.0	80	mV
Load Regulation 1	ΔV _{OLD1}	5mA ≤ I _O ≤ 1.5A			160	mV
Load Regulation 2	ΔV _{OLD2}	250mA ≤ I _O ≤ 750mA			80	mV
Output Voltage 2	V _{O2}	10.5V ≤ V _{IN} ≤ 23V, 5mA ≤ V _{IN} ≤ 1A	7.6		8.4	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{CCLN}	10.5V ≤ V _{IN} ≤ 25V			1.0	mA
Current Dissipation Variation (Load)	ΔI _{CCLD}	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*			52	uV
Ripple Rejection	R _r	f = 120Hz, 11.5V ≤ V _{IN} ≤ 21.5V	56	72		dB
Dropout Voltage	V _{DROP}	I _O = 1A			2.0	V
Output Short Current	I _{OS}	V _{IN} = 35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(STON)}	V _{IN} = 35V, V _{ST} = 5V, I _O = 0, *			0.8	V
Current Dissipation at Strobe Mode	I _{CC(STON)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

L780500 Series

L780S09

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V _{IN}	11.5 to 25.0	V	unit
Output Current Range	I _O	5 to 1000	mA	

Operating Characteristics at Tj=25°C, V_{IN}=16V, I_O=500mA, V_{ST}=0V, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V _{O1}		8.64	9.0	9.36	V
Line Regulation 1	ΔV _{OLN1}	11.5V ≤ V _{IN} ≤ 25V		7	180	mV
Line Regulation 2	ΔV _{OLN2}	12V ≤ V _{IN} ≤ 20V		2	90	mV
Load Regulation 1	ΔV _{OLD1}	5mA ≤ I _O ≤ 1.5A			180	mV
Load Regulation 2	ΔV _{OLD2}	250mA ≤ I _O ≤ 750mA			90	mV
Output Voltage 2	V _{O2}	11.5V ≤ V _{IN} ≤ 24V, 8.55 5mA ≤ V _{IN} ≤ 1A			9.45	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{CCLN}	11.5V ≤ V _{IN} ≤ 26V			1.0	mA
Current Dissipation Variation (Load)	ΔI _{CLLD}	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*		57		uV
Ripple Rejection	R _r	f = 120Hz, 12V ≤ V _{IN} ≤ 22V	56	72		dB
Dropout Voltage	V _{DROP}	I _O = 1A			2.0	V
Output Short Current	I _{OS}	V _{IN} = 35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(STON)}	V _{IN} = 35V, V _{ST} = 5V, I _O = 0,*			0.8	V
Current Dissipation at Strobe Mode	I _{CC(STON)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

L780S10

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V _{IN}	13.0 to 25.0	V	unit
Output Current Range	I _O	5 to 1000	mA	

Operating Characteristics at Tj=25°C, V_{IN}=17V, I_O=500mA, V_{ST}=0V, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V _{O1}		9.6	10.0	10.4	V
Line Regulation 1	ΔV _{OLN1}	12.5V ≤ V _{IN} ≤ 28V		8	200	mV
Line Regulation 2	ΔV _{OLN2}	14V ≤ V _{IN} ≤ 20V		2.5	100	mV
Load Regulation 1	ΔV _{OLD1}	5mA ≤ I _O ≤ 1.5A			200	mV
Load Regulation 2	ΔV _{OLD2}	250mA ≤ I _O ≤ 750mA			100	mV
Output Voltage 2	V _{O2}	12.5V ≤ V _{IN} ≤ 25V, 9.5 5mA ≤ V _{IN} ≤ 1A			10.5	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{CCLN}	12.5V ≤ V _{IN} ≤ 25V			1.0	mA
Current Dissipation Variation (Load)	ΔI _{CLLD}	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*		63		uV
Ripple Rejection	R _r	f = 120Hz, 13V ≤ V _{IN} ≤ 23V	55	72		dB
Dropout Voltage	V _{DROP}	I _O = 1A			2.0	V
Output Short Current	I _{OS}	V _{IN} = 35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(STON)}	V _{IN} = 35V, V _{ST} = 5V, I _O = 0,*			0.8	V
Current Dissipation at Strobe Mode	I _{CC(STON)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

L780500 Series

L780S12

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V _{IN}	15.0 to 27.0	V	unit
Output Current Range	I _O	5 to 1000	mA	

Operating Characteristics at Tj=25°C, V_{IN}=19V, I_O=500mA, Vst=0V, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V _{O1}		11.5	12.0	12.5	V
Line Regulation 1	ΔVoln1	14.5V ≤ V _{IN} ≤ 30V		10	240	mV
Line Regulation 2	ΔVoln2	16V ≤ V _{IN} ≤ 22V		3	120	mV
Load Regulation 1	ΔVold1	5mA ≤ I _O ≤ 1.5A			240	mV
Load Regulation 2	ΔVold2	250mA ≤ I _O ≤ 750mA			120	mV
Output Voltage 2	V _{O2}	14.5V ≤ V _{IN} ≤ 27V, 11.4 5mA ≤ V _{IN} ≤ 1A			12.6	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔIccln	14.5V ≤ V _{IN} ≤ 30V			1.0	mA
Current Dissipation Variation (Load)	ΔIccld	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*			75	uV
Ripple Rejection	R _r	f = 120Hz, 15V ≤ V _{IN} ≤ 25V	55	71		dB
Dropout Voltage	V _{drop}	I _O = 1A			2.0	V
Output Short Current	I _{OS}	V _{IN} = 35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(ston)}	V _{IN} = 35V, V _{st} = 5V, I _O = 0,*			0.8	V
Current Dissipation at Strobe Mode	I _{CC(ston)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

L780S15

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V _{IN}	18.0 to 30.0	V	unit
Output Current Range	I _O	5 to 1000	mA	

Operating Characteristics at Tj=25°C, V_{IN}=23V, I_O=500mA, Vst=0V, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V _{O1}		14.4	15.0	15.6	V
Line Regulation 1	ΔVoln1	17.5V ≤ V _{IN} ≤ 30V		11	300	mV
Line Regulation 2	ΔVoln2	20V ≤ V _{IN} ≤ 26V		3	150	mV
Load Regulation 1	ΔVold1	5mA ≤ I _O ≤ 1.5A			300	mV
Load Regulation 2	ΔVold2	250mA ≤ I _O ≤ 750mA			150	mV
Output Voltage 2	V _{O2}	17.5V ≤ V _{IN} ≤ 30V, 14.25 5mA ≤ V _{IN} ≤ 1A			15.75	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔIccln	17.5V ≤ V _{IN} ≤ 30V			1.0	mA
Current Dissipation Variation (Load)	ΔIccld	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*			90	uV
Ripple Rejection	R _r	f = 120Hz, 18.5V ≤ V _{IN} ≤ 28.5V	54	70		dB
Dropout Voltage	V _{drop}	I _O = 1A			2.0	V
Output Short Current	I _{OS}	V _{IN} = 35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(ston)}	V _{IN} = 35V, V _{st} = 5V, I _O = 0,*			0.8	V
Current Dissipation at Strobe Mode	I _{CC(ston)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

L780500 Series

L780S18

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V _{IN}	21.0 to 33.0	V	unit
Output Current Range	I _O	5 to 1000	mA	

Operating Characteristics at Tj=25°C, V_{IN}=27V, I_O=500mA, V_{ST}=0V, *Ta=25°C

			min	typ	max	unit
Output Voltage 1	V _{O1}		17.3	18.0	18.7	V
Line Regulation 1	ΔV _{OLN1}	21V ≤ V _{IN} ≤ 33V		15	360	mV
Line Regulation 2	ΔV _{OLN2}	24V ≤ V _{IN} ≤ 30V		5	180	mV
Load Regulation 1	ΔV _{OLD1}	5mA ≤ I _O ≤ 1.5A			360	mV
Load Regulation 2	ΔV _{OLD2}	250mA ≤ I _O ≤ 750mA			180	mV
Output Voltage 2	V _{O2}	21V ≤ V _{IN} ≤ 33V, 5mA ≤ V _{IN} ≤ 1A	17.1		18.9	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{CLN}	21V ≤ V _{IN} ≤ 33V			1.0	mA
Current Dissipation Variation (Load)	ΔI _{CLD}	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*			110	uV
Ripple Rejection	R _r	f=120Hz, 22V ≤ V _{IN} ≤ 32V	53	69		dB
Dropout Voltage	V _{DROP}	I _O =1A			2.0	V
Output Short Current	I _{OS}	V _{IN} =35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(STON)}	V _{IN} =35V, V _{ST} =5V, I _O =0,*			0.8	V
Current Dissipation at Strobe Mode	I _{CC(STON)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

L780S20

Recommended Operating Conditions at Ta=25°C

Input Voltage Range	V _{IN}	23.0 to 35.0	V	unit
Output Current Range	I _O	5 to 1000	mA	

Operating Characteristics at Tj=25°C, V_{IN}=29V, I_O=500mA, V_{ST}=0V, *Ta=25°C

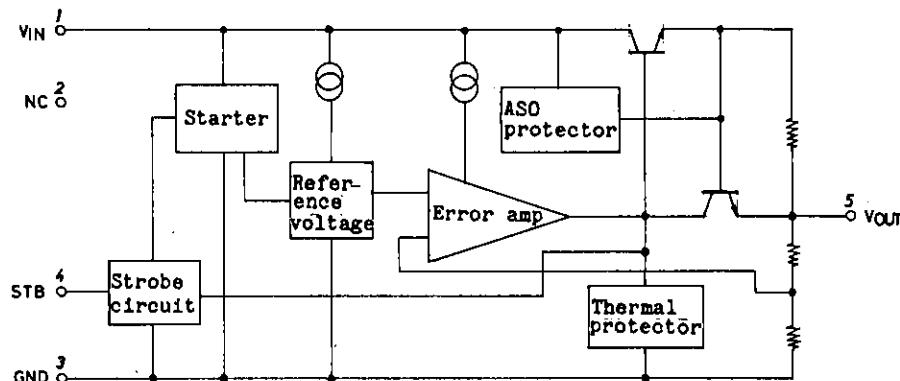
			min	typ	max	unit
Output Voltage 1	V _{O1}		19.2	20.0	20.8	V
Line Regulation 1	ΔV _{OLN1}	23V ≤ V _{IN} ≤ 35V		15	400	mV
Line Regulation 2	ΔV _{OLN2}	26V ≤ V _{IN} ≤ 32V		5	200	mV
Load Regulation 1	ΔV _{OLD1}	5mA ≤ I _O ≤ 1.5A			400	mV
Load Regulation 2	ΔV _{OLD2}	250mA ≤ I _O ≤ 750mA			200	mV
Output Voltage 2	V _{O2}	24V ≤ V _{IN} ≤ 35V, 5mA ≤ V _{IN} ≤ 1A	19.0		21.0	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{CLN}	23V ≤ V _{IN} ≤ 35V			1.0	mA
Current Dissipation Variation (Load)	ΔI _{CLD}	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*			110	uV
Ripple Rejection	R _r	f=120Hz, 24V ≤ V _{IN} ≤ 34V	53	67		dB
Dropout Voltage	V _{DROP}	I _O =1A			2.0	V
Output Short Current	I _{OS}	V _{IN} =35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(STON)}	V _{IN} =35V, V _{ST} =5V, I _O =0,*			0.8	V
Current Dissipation at Strobe Mode	I _{CC(STON)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

L780S24**Recommended Operating Conditions at Ta=25°C**

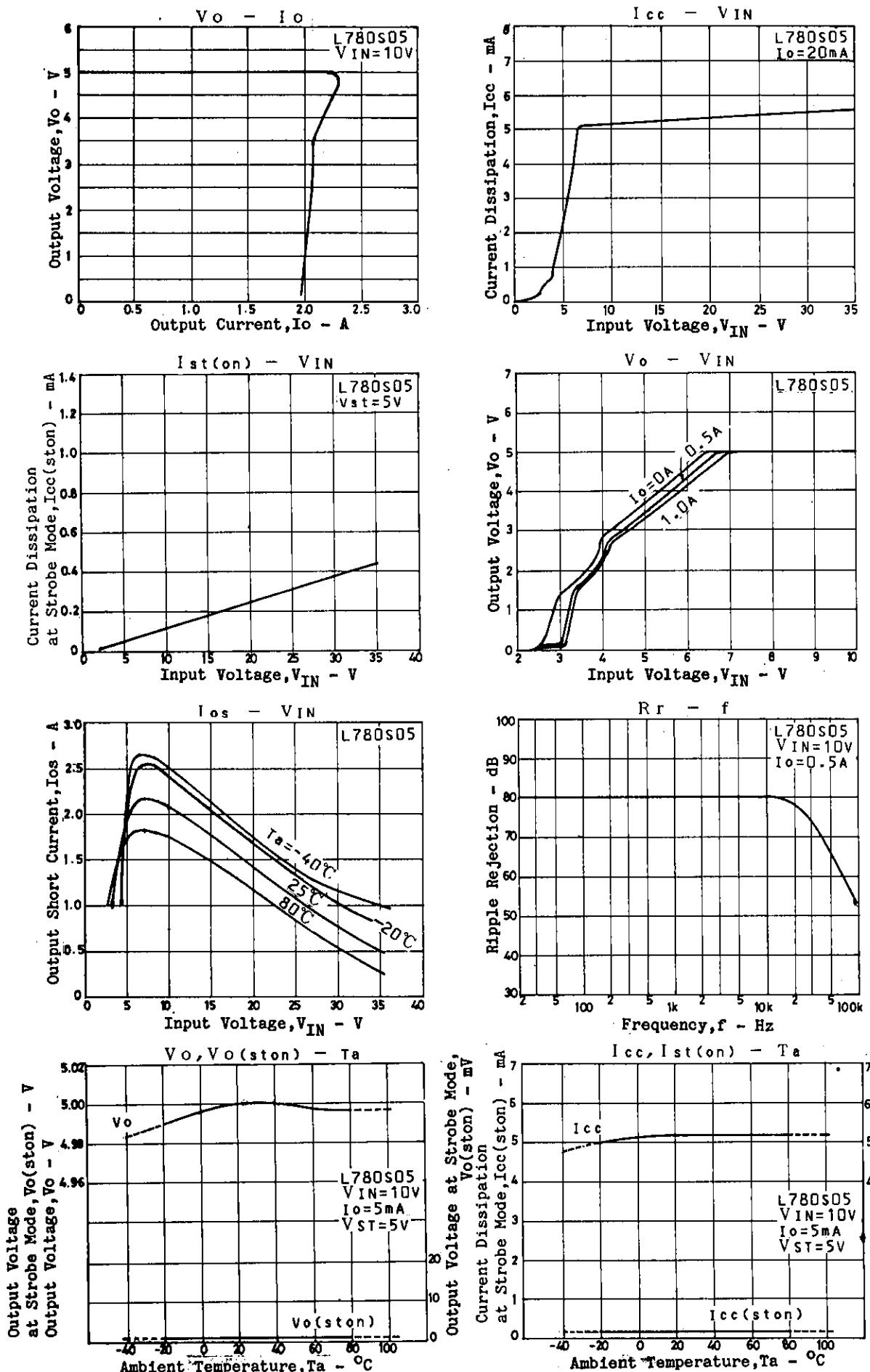
Input Voltage Range	V _{IN}	27.0 to 35.0	V
Output Current Range	I _O	5 to 1000	mA

Operating Characteristics at T_j=25°C, V_{IN}=33V, I_O=500mA, V_{ST}=0V, *Ta=25°C

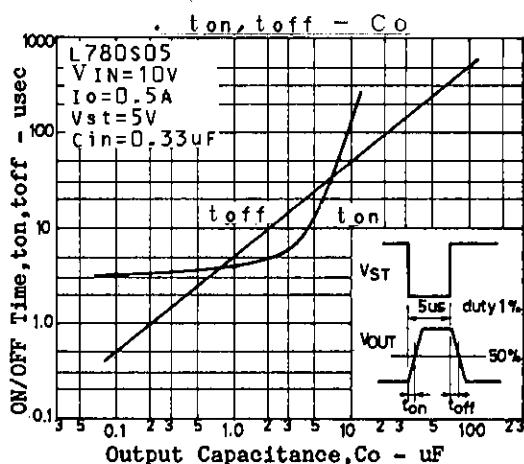
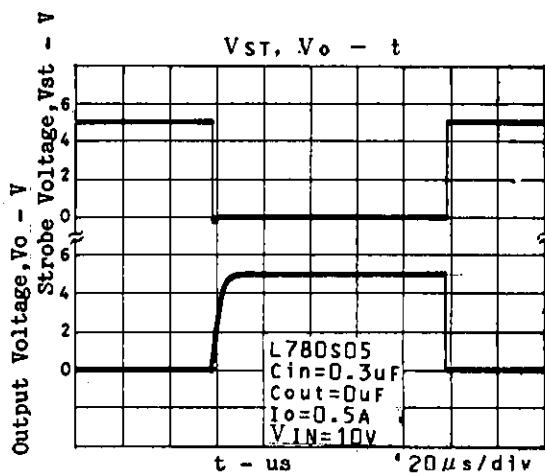
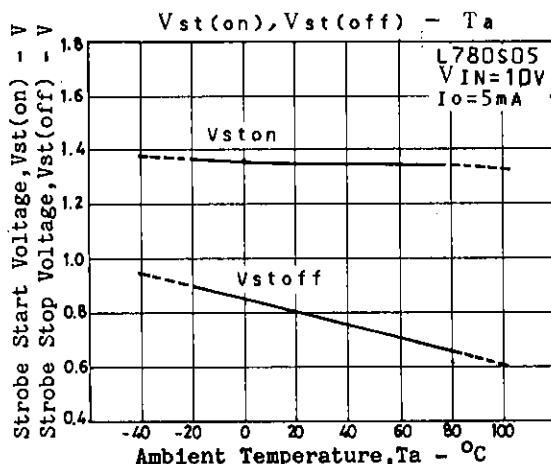
			min	typ	max	unit
Output Voltage 1	V _{O1}		23.0	24.0	25.0	V
Line Regulation 1	ΔV _{OLN1}	27V ≤ V _{IN} ≤ 35V		18	480	mV
Line Regulation 2	ΔV _{OLN2}	30V ≤ V _{IN} ≤ 35V		6	240	mV
Load Regulation 1	ΔV _{OLD1}	5mA ≤ I _O ≤ 1.5A			480	mV
Load Regulation 2	ΔV _{OLD2}	250mA ≤ I _O ≤ 750mA			240	mV
Output Voltage 2	V _{O2}	27V ≤ V _{IN} ≤ 35V, 5mA ≤ V _{IN} ≤ 1A	22.8		25.2	V
Current Dissipation	I _{CC}				8.0	mA
Current Dissipation Variation (Line)	ΔI _{CCLN}	27V ≤ V _{IN} ≤ 35V			1.0	mA
Current Dissipation Variation (Load)	ΔI _{CCLD}	5mA ≤ I _O ≤ 1A			0.5	mA
Output Noise Voltage	V _{NO}	10Hz ≤ f ≤ 100kHz*		180		uV
Ripple Rejection	R _r	f = 120Hz, 28V ≤ V _{IN} ≤ 34V	50	66		dB
Dropout Voltage	V _{DROP}	I _O = 1A			2.0	V
Output Short Current	I _{OS}	V _{IN} = 35V			0.75	A
Peak Output Current	I _{OP}				2.2	A
Output Voltage at Strobe Mode	V _{O(STON)}	V _{IN} = 35V, V _{ST} = 5V, I _O = 0, *			0.8	V
Current Dissipation at Strobe Mode	I _{CC(STON)}	"			3.0	mA
Strobe Input Current	I _{ST}	"			1.0	mA

Equivalent Circuit Block Diagram

L780500 Series



L780S00 Series



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